



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

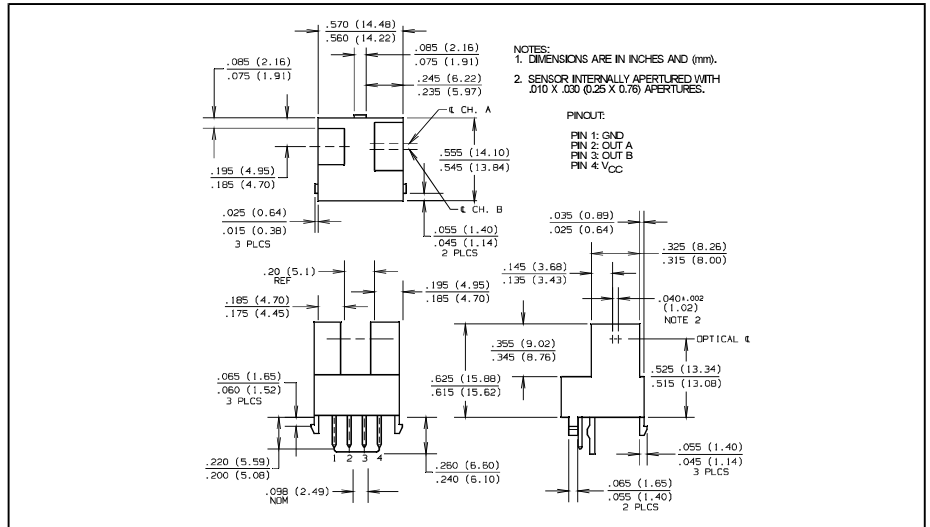
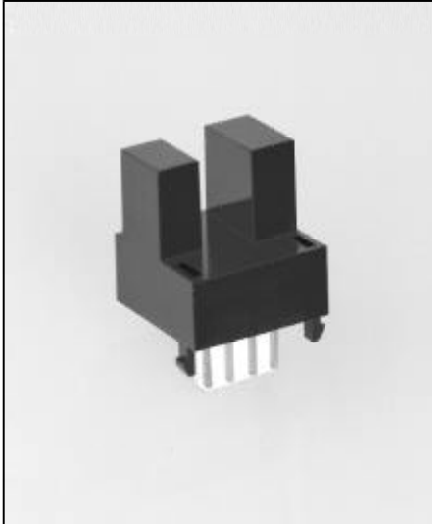
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Dual Channel Encoder Type OPB950



Features

- Dual channel outputs
- 0.010" (0.254 mm) sensor apertures for high resolution
- Open collector inverter outputs
- Snap mount
- 4-pin connector
0.98" (2.5 mm)
Mates with Molex 22-01-1042
and terminal # 08-70-0069

Description

The OPB950 consists of an infrared emitting diode and a monolithic integrated circuit which incorporates two independent photodiodes, linear amplifiers, Schmitt trigger circuits and output transistors. The outputs are TTL/LSTTL compatible and can drive 8 TTL loads.

Applications include linear and rotary encoders with high resolution provided by internal 0.010" (0.254 mm) apertures located in front of Photologic® sensor on 0.040" (1.02 mm) center line spacing.



For RoHS compliant devices add "Z" to the end of the part number: OPB950Z

RoHS

Absolute Maximum Ratings (TA = 25°C unless otherwise noted)

Storage Temperature Range -40°C to +85°C
Operating Temperature Range -40°C to +85°C

Input Diode

Forward DC Current 50 mA
Peak Forward Current (1µs Pulse Width, 300 pps) 3.0 A
Reverse D. C. Voltage 2.0 V
Power Dissipation 100 mW⁽¹⁾

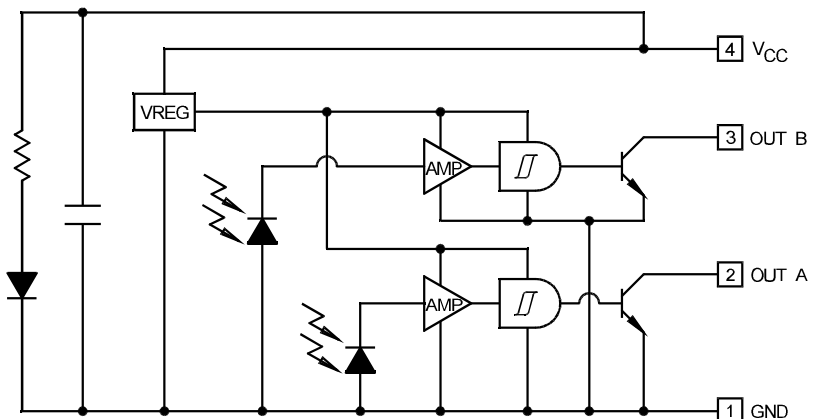
Output Photologic®

Supply Voltage, VCC 5 V
Voltage at Output 18 V
Power Dissipation 200 mW⁽²⁾
Low Level Output Current (Sinking) 40 mA

Notes:

- (1) Derate linearly 1.67 mW/°C above 25°C.
- (2) Derate linearly 3.33 mW/°C above 25°C.

Schematic



Type OPB950

Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	TEST CONDITIONS
V _{CC}	Operating D.C. Supply Voltage	4.75	5.0	5.25	V	
V _{OH}	High Level Output Voltage (per channel)	2.4			V	V _{CC} = 5.0 V, Blocked Condition
V _{OL}	Low Level Output Voltage (per channel)			0.4	V	V _{CC} = 5.0 V, Unblocked Condition